



February 3, 2010

Mr. Walter Nied
On-Scene Coordinator
U.S. Environmental Protection Agency
77 West Jackson Boulevard
Chicago, IL 60604

**Subject: Addendum No. 1 to Groundwater Monitoring Plan
Mallard North Landfill**

Dear Mr. Nied:

On behalf of the Forest Preserve District of DuPage County (FPD), RMT, Inc. (RMT), is submitting Addendum No. 1 to the Groundwater Monitoring Plan for Mallard North Landfill (Plan). The U.S. EPA requested, in an e-mail to the FPD dated December 31, 2009, that the FPD include in the Plan an objective that specifically addressed methane in groundwater. This issue was also discussed during our January 14th meeting.

The groundwater monitoring is intended to assess what, if any, impact MNL is having on groundwater quality. For certain parameters, this assessment will include comparing observed chemical concentrations with available regulatory criteria (e.g., 35 IAC Part 620 groundwater standards). The Plan includes analyzing groundwater samples for methane. As discussed during our January 14th meeting, there are currently no U.S. EPA or Illinois EPA regulatory criteria for methane in groundwater. The presence of methane in groundwater is not considered a human health risk from the perspective on ingestion of groundwater containing methane, as indicated by the representative of the Agency for Toxic Substances and Disease Registry (ATSDR) during the January 27, 2010 public meeting at the Village of Hanover Park. Rather, the issue with methane in groundwater is the potential to create an explosive atmosphere if methane is present in the unsaturated zone at concentrations between the lower explosive limit (5%) and upper explosive limit (15%). The FPD and RMT will evaluate the results of the groundwater sampling and analysis for methane, the potential migration pathways (e.g., W1/W2 subunit and other granular zones), methane transport mechanisms (e.g., groundwater transport, volatilization, etc.), and the results of gas probe monitoring. The evaluation will incorporate the Proposed Long-Term Goals/Remedial Objectives for Mallard North Landfill, dated September 30, 2009, specifically Remedial Objectives 2 and 3:

- Monitor off site beyond agreed upon point(s) of compliance for gas to ensure methane levels are <2.5%

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- Capture and remove off site methane originating from the site where concentrations exceed 2.5%.

Please contact us with any questions or comments.

Sincerely,

RMT, Inc.

A handwritten signature in black ink, appearing to read "Alan J. Schmidt". The signature is fluid and cursive, with the first name "Alan" and last name "Schmidt" clearly distinguishable.

Alan J. Schmidt
Project Manager

cc: Jacob Hassan, U.S. EPA
Tom Rivera – IEPA
Joy Hinz, County of DuPage
Omprakash Patel – Weston Solutions, Inc.
Joe Benedict – Forest Preserve District of DuPage County